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Figure 1: Bacterial cell shapes

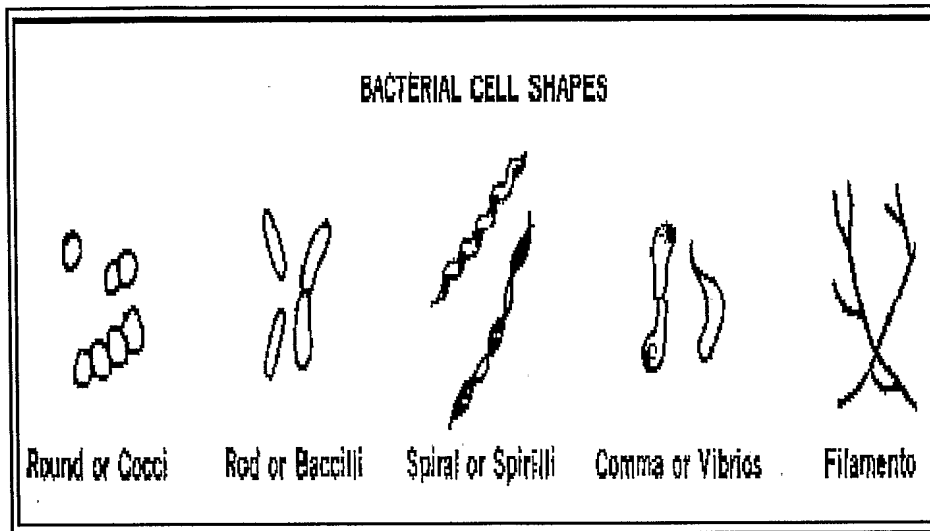
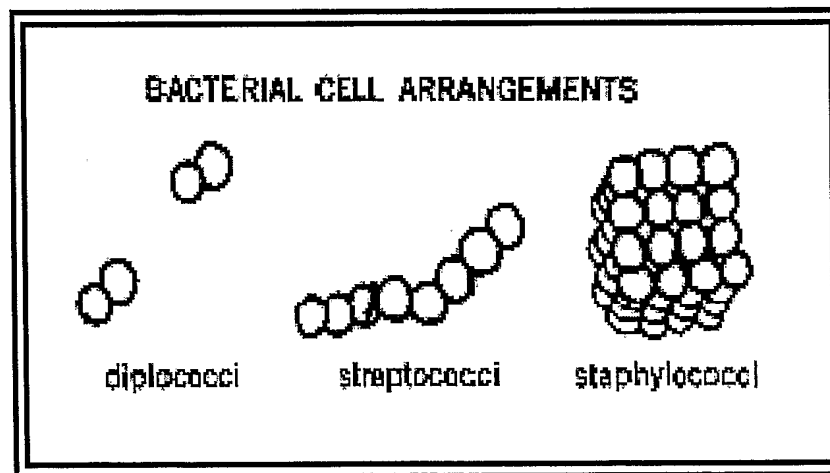
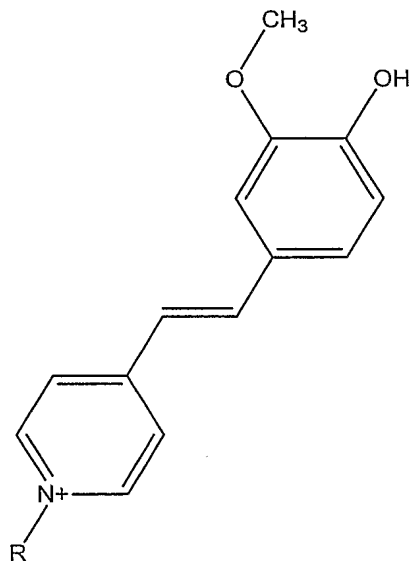


Figure 2: Bacteria cell arrangements



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R= CH₃-, CH₃(CH₂)₄CH₂-, CH₃(CH₂)₁₀CH₂-, CH₃(CH₂)₂₀CH₂-

Figure 3: Merocyanine dyes synthesized

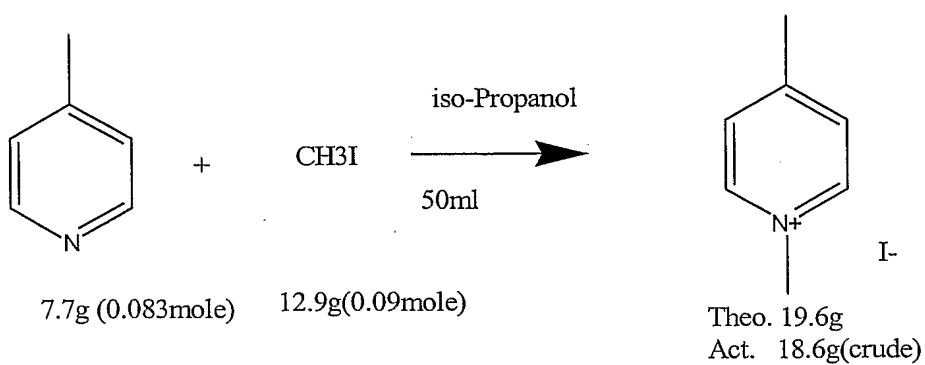


Figure 4: Methylation of picoline

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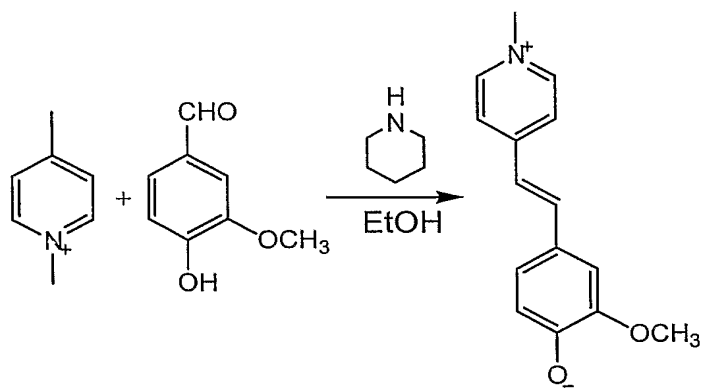


Figure 5: Merocyanine dye synthesis

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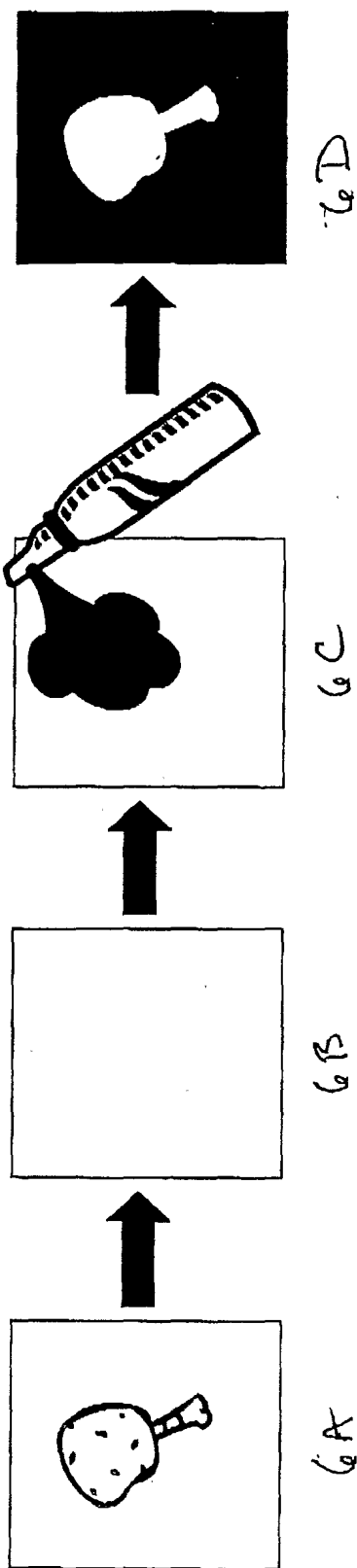


Figure 6

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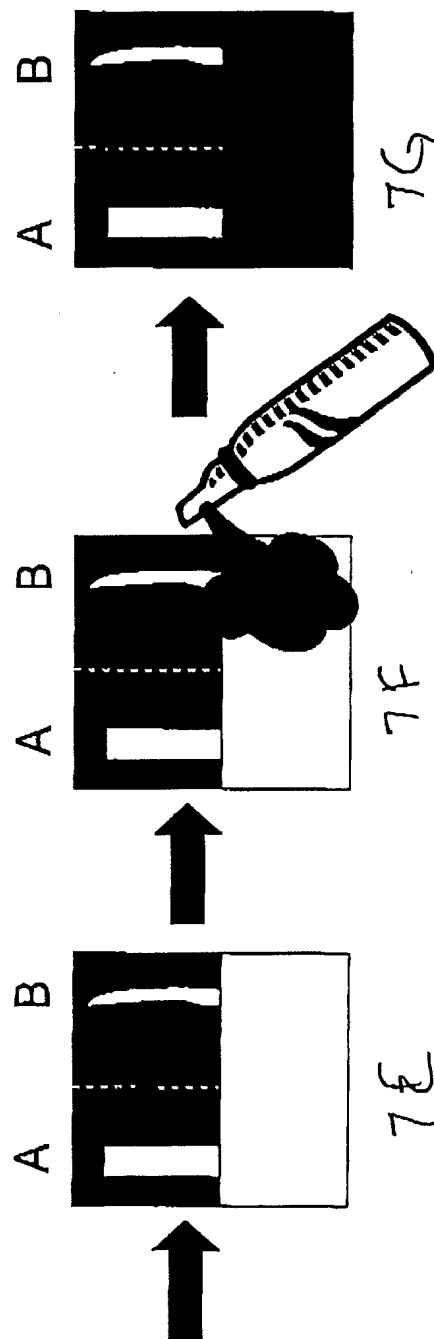
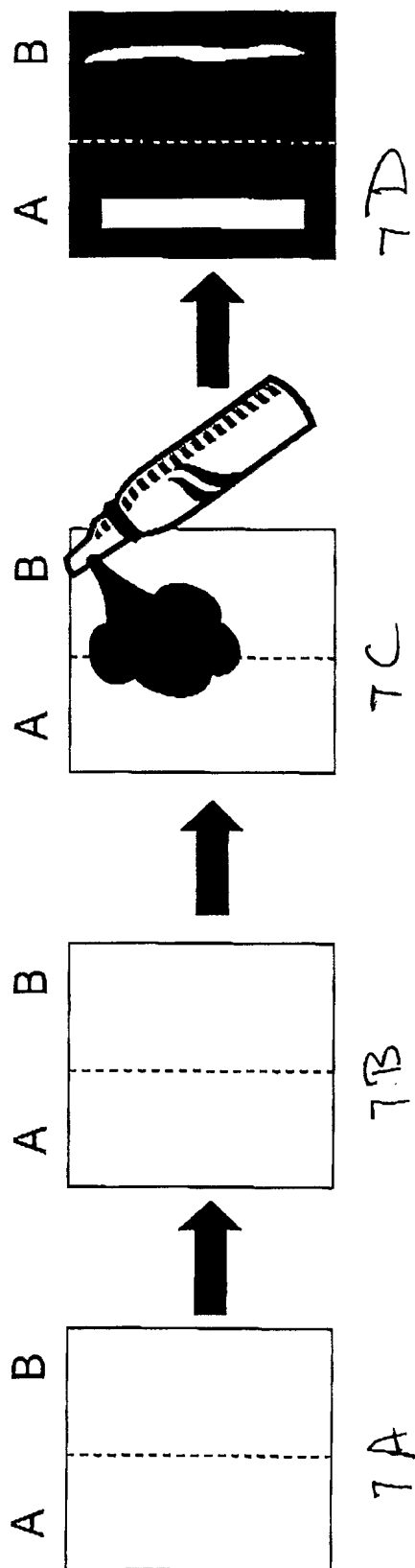
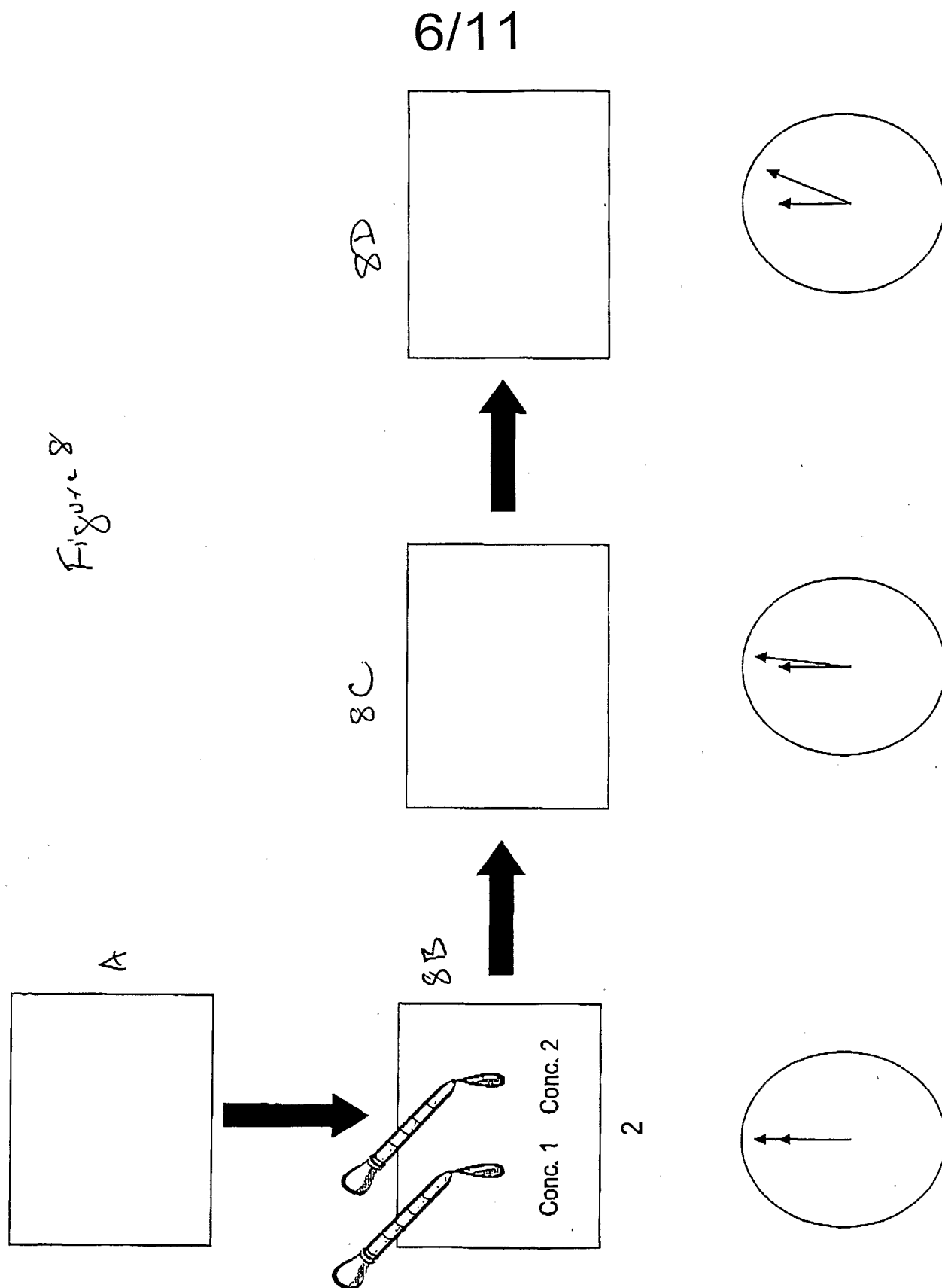


Figure 7



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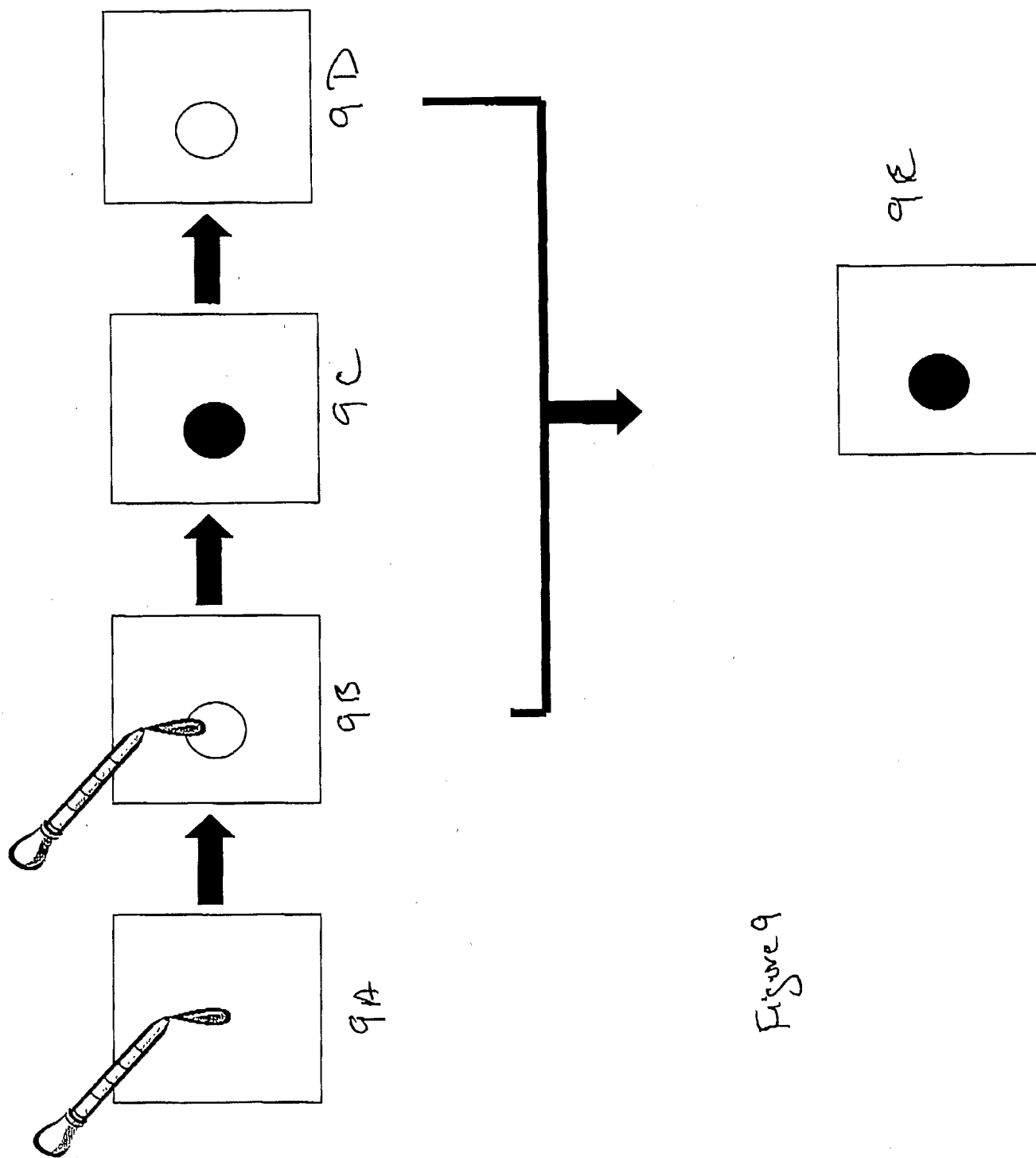


Figure 9

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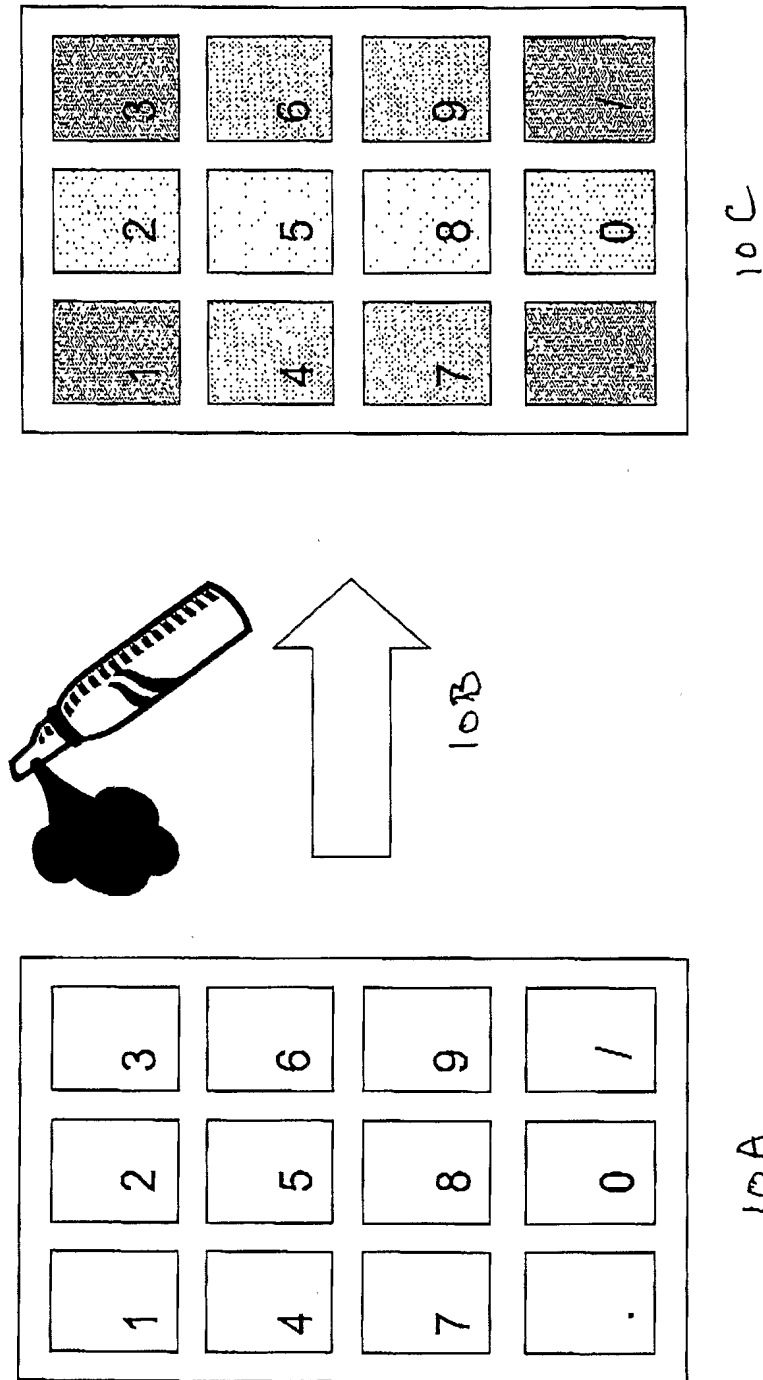


Figure 10

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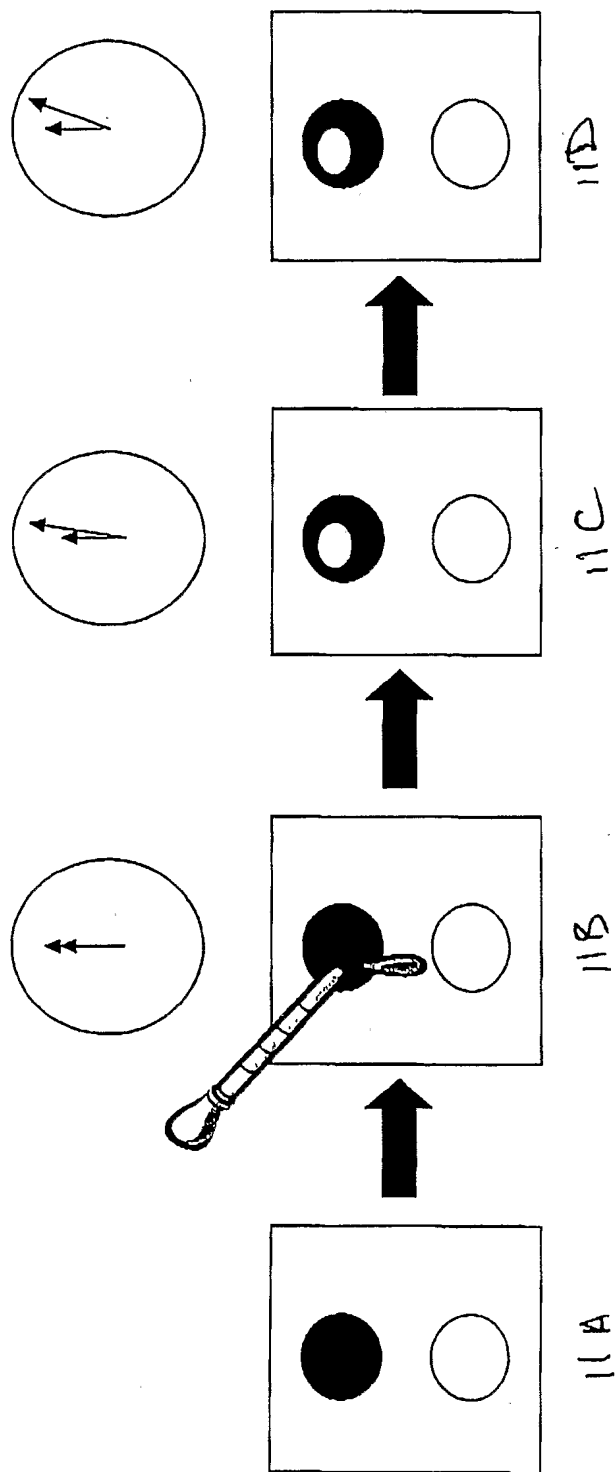


Figure 11

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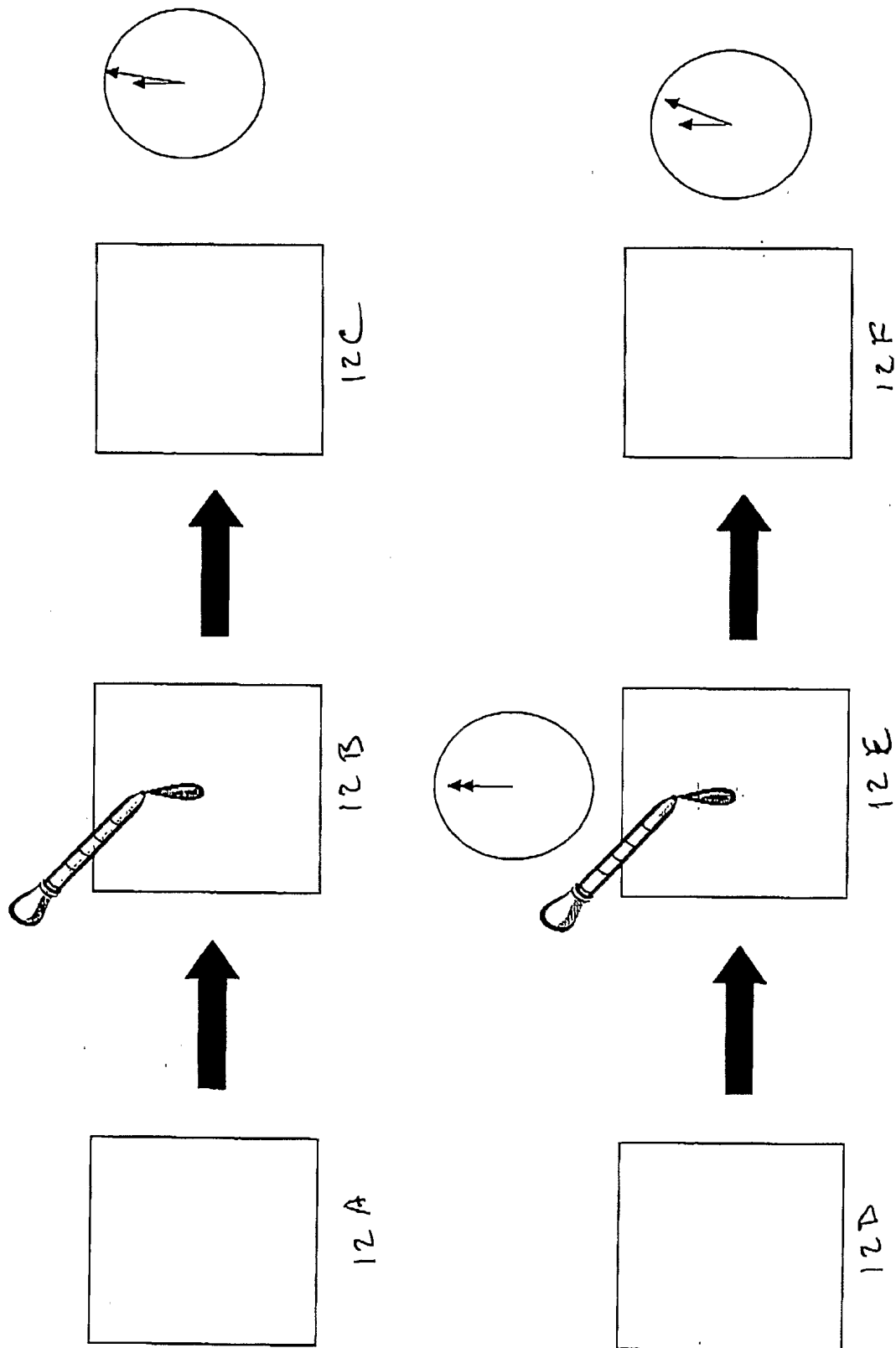


Figure 12

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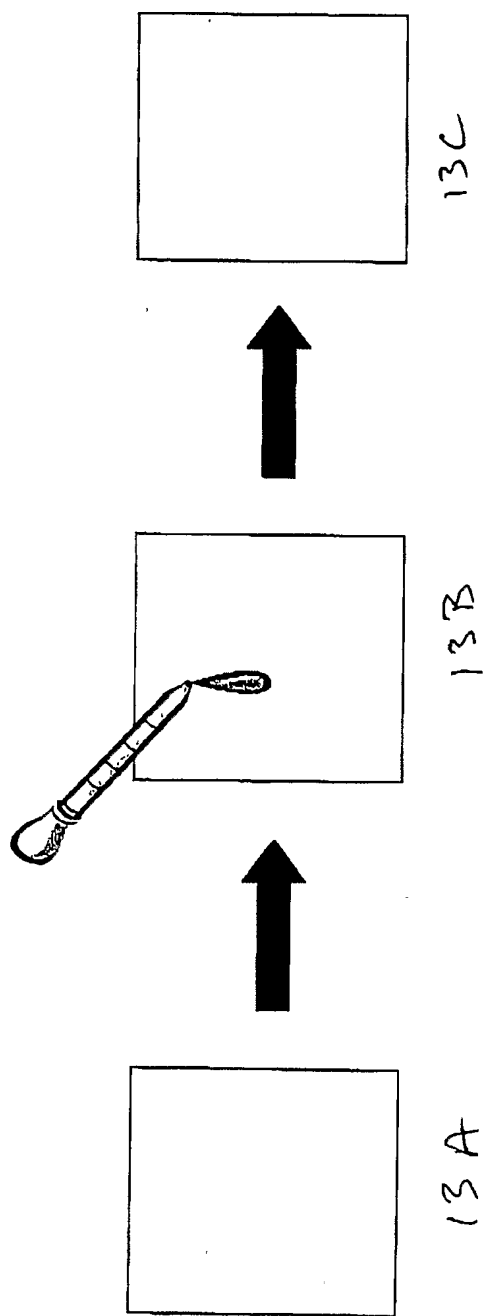


Figure 13